

## **REMARKS**

**[0002]**        Applicant respectfully requests reconsideration and allowance of all of the claims of the application. The status of the claims is as follows:

- Claims 1, 2, 4, 5 and 54-71 are currently pending
- Claims 31-53 are canceled herein
- Claims 1, 2, 4, 5, and 54-56 are amended herein
- New claims 57-71 are added herein

### **Claim Amendments**

**[0003]**        Without conceding the propriety of the rejections herein and in the interest of expediting prosecution, Applicant amends claims 1, 2, 4, 5, and 54-56 herein. Applicant amends claims to highlight claimed features. These amendments are fully supported by the Application and are made to expedite prosecution and more quickly identify allowable subject matter. These amendments are merely intended to highlight the claimed features, and should not be construed as further limiting the claimed invention in response to the cited references.

### **New claims**

[0004] New claims 57-71 are added to capture the subject matter in different perspectives. Support for the new claims can be found in the specification in, for example, Figs. 5A-5I with associated text.

### **Cited Documents**

[0005] The following documents have been applied to reject one or more claims of the Application:

- Cocotis: Cocotis, et al., U.S. Patent Application Publication No. 2003/0079030
- Angwin: Angwin, et al., U.S. Patent No. 6,477,576

### **Claims 1, 2, 4, 5 and 54-56 Are Non-Obvious Over Cocotis in view of Angwin**

[0006] Claims 1, 2, 4, 5 and 54-56 stand rejected under 35 U.S.C. § 103(a) as allegedly being obvious over Cocotis in view of Angwin. Applicant respectfully traverses the rejection. Furthermore, in light of the amendments herein, Applicant respectfully submits that the rejection is moot.

Independent claims 1 and 54

[0007] Independent claim 1, as amended, recites (in part):

*an RNIC component* configured to facilitate transmitting a first tag-based message to the external message device, the first tag-based message including a portion retained by the local buffer and a remaining portion of the first tag-based message, wherein the RNIC component is configured to:

understand remote direct memory access operations of the external message device; and

*conduct data transfer from the local buffer to a storage component of the external message device without the message device and the external message device executing copy instructions for the data transfer from the message device to the external message device*

[0008] Applicant respectfully asserts that the above emphasized features are not disclose, taught, or suggested in any of the cited references, whether taken alone or in combination.

[0009] Cocotis is directed to a system and method for managing output such as printing, faxing, and e-mail over various types of computer networks. According to Cocotis, the system and method provides for accessing print and/or document resources located on private networks behind firewalls. A pass-through communication link is established between system components located on opposing sides of a firewall. A system-served user-interface enables users to select source data and an output device on which the source data are to be printed, either or both of which may reside behind the firewall. The source data are then retrieved and forwarded to a print service, which

renders output image data corresponding to the source data and the selected output device. (Cocotis, see Abstract).

**[00010]** In light of the above, Applicant respectfully asserts Cocotis merely discloses that data a firewall is forwarded to an output device through a pass-through communication link where the device that stores the data and the output device are located behind firewalls. However, Cocotis does not disclose or suggest at least the emphasized feature, e.g., “an RNIC component configured to facilitate transmitting...wherein the RNIC component is configured to conduct data transfer from the local buffer to a storage component of the external message device without the message device and the external message device executing copy instructions for the data transfer from the message device to the external message device” as recited in amended claim 1. In fact, Cocotis is completely silent with respect to the above emphasized feature.

**[00011]** Applicant further asserts that Angwin fails to remedy the deficiency of Cocotis. Angwin describes methods, systems and computer program products for automated discovery of a services menu of a processing system such as a pervasive computing device by broadcasting a Request Services Menu message to a plurality of devices connected to a network. According to Angwin, the Request Services Menu message provides information about the pervasive computing device broadcasting the message. In response to the broadcast message, a services menu associated with the pervasive computing device is received and provided to a user of the pervasive

computing device. The services menu may also be updated by sending a Services Menu Update to the device. (Angwin, see Abstract).

**[00012]** Applicant asserts that Angwin merely describes a pervasive computing device broadcasting the message and a message receiver configured to receive the message. However, Angwin is silent with respect to the “RNIC component configured to facilitate transmitting...wherein the RNIC component is configured to conduct data transfer from the local buffer to a storage component of the external message device without the message device and the external message device executing copy instructions for the data transfer from the message device to the external message device” as recited in amended claim 1.

**[00013]** Thus, independent claim 1, as amended, is respectfully asserted patentable over Cocotis and Angwin.

**[00014]** Independent claim 54 is amended to recite features similar to those in amended claim 1. For example, claim 54 recites:

- transferring the portion retained at the local buffer of the local device to the external message device *via an RNIC component*
- wherein the RNIC component is configured to *conduct data transfer directly from the local buffer of the local device to the referenced external buffer of the external message device without requiring processors of the local device or the external message device to execute copy instructions of the data transfer*

**[00015]** Thus, independent claim 54 is respectfully asserted patentable over Cocotis and Angwin for at least the similar reasons as provided above with reference to claim 1.

Dependent claims 2, 4, 5, 55 and 56

[00016] These claims ultimately depend upon independent claim 1 or claim 54. As discussed above, each of claims 1 and 54 is patentable over Cocotis and Angwin. It is axiomatic that any dependent claim which depends from a base claim that is patentable over references is also patentable over the references. Additionally, some or all of these claims may also be allowable for additional independent reasons.

[00017] For example, dependent claim 2 recites (in part):

wherein the first tag-based message include a body element for including data, *the body element of the first tag-based message including the reference to the portion of the first tag-based message retained by the local buffer*

[00018] In rejecting claim 2, the Office cited paragraph [0210] of Cocotis, which is reproduced as follows:

WAP-enabled devices are able to access data from various Internet sites that provide content that is designed to be used by such devices. This data is generally delivered as Wireless Markup Language (WML) data to the device, as described in further detail below. WML comprises a special markup language that is designed to facilitate limited browsing capabilities in consideration of the low-resolution displays and limited navigation capabilities available on today's handheld devices, such as wireless phones, PDAs, and pocket PCs. WML includes HDML (Handheld Device Markup Language), and can trace its roots to XML (extensible Markup Language). It further comprises a meta-language that supports user-defined extensions. (Cocotis, paragraph [0210]).

[00019] In light of the above, Applicant asserts that the feature, e.g., “the body element of the first tag-based message including the reference to the portion of the first tag-based message retained by the local buffer” as recited in claim 2, is not disclosed or

suggested in Cocotis. Cocotis in paragraph [0210] merely describes WML that includes HDML and can trace its roots to XML. Cocotis in paragraph [0210], however, is silent with the emphasized feature as recited in claim 2. Similar feature is also recited in claim 55.

**[00020]** Thus, in addition to the reasons provided above with reference to claims 1 and 54 respective, claims 2 and 55 are asserted patentable over the cited references for the above additional reasons.

**New claims 57-65 are patentable over Cocotis and Angwin**

**[00021]** New claim 57-65 are added to capture the subject matter in a different perspective.

**Independent claim 57**

**[00022]** Independent claim 57 recites the features that are also recited in claims 1 and 2 as follows:

- wherein the first customizable, tag-based message comprises... ***an address of a local buffer within the message sender where a portion of the first tag-based message is retained***
- ***transferring the portion of the first tag-based message ...via an RNIC component...wherein the RNIC component is configured to conduct data transfer directly from the staging buffer ... to the referenced buffer ... without requiring processors ...***

[00023] Thus, independent claim 57 is asserted patentable over Cocotis and Angwin for at least the reasons provided above with reference to claims 1 and 2.

[00024] Furthermore, independent claim 57 recites (in part):

- *intercepting*, via an RNIC *at the intermediary*, the first customizable, tag-based message from the message sender
- *changing the first customizable, tag-based message into the second customizable, tag-based message*, wherein the second customizable, tag-based message includes an URI of the staging buffer and a reference to the staging buffer of the intermediary where the portion of the first tag-based message is retained
- *transferring* the portion of the first tag-based message retained in the local buffer of the message sender *to the staging buffer of the intermediary* via an RDMA
- in response to the insert request, *transferring the portion retained at the staging buffer of the intermediary* to the message receiver via an RNIC component

[00025] In view of Cocotis and Angwin, Applicant respectfully asserts that at least the above emphasized features are not disclosed, taught or suggested in Cocotis and Angwin, whether taken alone or in combination. In fact, none of the cited references mentions an intermediary configured to implement the above emphasized features.

[00026] Accordingly, in addition to the reasons above with reference to claims 1 and 2, independent claim 57 is asserted patentable over Cocotis and Angwin for the above additional reasons.



Dependent claims 58-65

[00027] These claims ultimately depend upon independent claim 57. As discussed above, claim 57 is patentable over Cocotis and Angwin. It is axiomatic that any dependent claim which depends from a base claim that is patentable over references is also patentable over the references. Additionally, some or all of these claims may also be allowable for additional independent reasons.

New claims 66-71 are patentable over Cocotis and Angwin

[00028] New claims 66-71 are added to recite the subject matter in a further different perspective.

[00029] Independent claim 66 recites the features similar to those in claims 1 and 2. For example, independent claim 66 recites:

- receiving the customizable, tag-based message from a message sender, the *customizable, tag-based message comprising...a steering tag indicative of a physical address of the local buffer of the message sender where a portion of the customizable, tag-based message is retained;*
- causing the portion of the customizable, tag-based message retained within the message sender *to be transferred to the local buffer of the message receiver via an RDMA*, wherein *the RDMA is a transferring mechanism that contains control information pertaining to a remote direct memory access transfer session and is configured to conduct data transfer without requiring the processors* of the message receiver or the message sender

[00030] Consequently, newly added claim 66 is respectfully asserted patentable over Cocotis and Angwin for at least the reasons provided above with reference to claims 1 and 2.

**[00031]** Claims 67-71 ultimately depend upon independent claim 66. As discussed above, claim 66 is patentable over Cocotis and Angwin. It is axiomatic that any dependent claim which depends from a base claim that is patentable over references is also patentable over the references. Additionally, some or all of these claims may also be allowable for additional independent reasons.

## **Conclusion**

**[00032]** Applicant respectfully requests reconsideration and prompt issuance of the application. If any issues remain that prevent issuance of this application, the Examiner is urged to contact the undersigned representative for the Applicant before issuing a subsequent Action.

Respectfully Submitted,

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